

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S10	3042	(347/68,69,70,71,72).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/27 17:31
S11	599	(347/70).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/27 11:44
S12	1165	residual near2 vibrat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/30 13:50
S13	16	S11 and S12	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 11:28
S14	369	(residual near2 vibrat\$3) same (detect\$3 sens\$3 measur\$4 measurement)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 13:43
S15	3	S10 and S14	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 11:28
S16	561308	(vibrat\$3 near3 plate) actuator (piezo adj electric) piezo\$1electric piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 11:43
S17	546	S11 and S16	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 17:30
S18	136003	(vibrat\$3) same (detect\$3 sens\$3 measur\$4 measurement)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 13:43
S19	258034	(vibrat\$3 near3 plate) diaphragm	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 13:44
S20	50	S17 and S18	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 13:44
S21	44	S19 and S20	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 13:45

S22	3042	(347/68,69,70,71,72).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/27 17:31
S23	561308	(vibrat\$3 near3 plate) actuator (piezo adj electric) piezo\$1electric piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 17:31
S24	2552	S22 and S23	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 17:30
S25	2178	(347/19).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/27 17:31
S26	5207	(347/19,68,69,70,71,72).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/27 17:31
S27	3312	S23 and S26	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 17:33
S28	1165	residual near2 vibrat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 17:32
S29	136003	(vibrat\$3) same (detect\$3 sens\$3 measur\$4 measurement)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 17:32
S30	258034	(vibrat\$3 near3 plate) diaphragm	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 17:32
S31	17587	(vibrat\$3 frequency) near2 pattern	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 17:32
S32	6	S27 and S28 and S29 and S30 and S31	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 17:33
S33	50	S27 and S28	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 17:34

S34	6	S31 and S33	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 17:34
S35	42	S30 and S33	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 17:34
S36	36	S35 not S32	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 17:35
S37	16	S29 and S36	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/27 17:35
S38	353	((nozzle ejection) near2 (malfunction\$3 abnormal\$3 faulty fail\$3)) near3 (detect\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/30 11:17
S41	16	((((nozzle ejection) near2 (malfunction\$3 abnormal\$3 faulty fail\$3)) near3 (detect\$3)) with (vibration)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/30 13:33
S42	13	((((nozzle ejection) near2 (malfunction\$3 abnormal\$3 faulty fail\$3)) near3 (detect\$3)) with (residual adj vibration)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/30 13:34
S43	3	S41 not S42	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/30 13:34
S44	2178	(347/19).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/30 13:50
S45	1165	residual near2 vibrat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/30 13:50
S46	20	S44 and S45	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/30 14:02
S47	12	S46 not S42	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/30 16:36

S49	836	((nozzle eject\$3 drop\$3) near2 (malfunction\$3 abnormal\$3 faulty fail\$3)) near3 (detect\$3 sens\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/30 16:38
S50	106	(detect\$3 sens\$3) same ((vibrat\$3 near2 residual) and (vibrat\$3 near2 (pattern cycle frequency)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/30 16:40
S51	11	S49 and S50	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/30 16:40
S52	106	(detect\$3 sens\$3) same ((vibrat\$3 near2 residual) and (vibrat\$3 near2 (pattern cycle frequency)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 16:49
S53	1165	residual near2 vibrat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 16:53
S54	836	((nozzle eject\$3 drop\$3) near2 (malfunction\$3 abnormal\$3 faulty fail\$3)) near3 (detect\$3 sens\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 16:48
S55	11	S52 and S53 and S54	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 16:13
S57	162	(detect\$3 sens\$3) same ((vibrat\$3 near2 residual) and (vibrat\$3 with (pattern cycle frequency)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 16:50
S58	12	S54 and S57	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 16:14
S59	1	S58 not S55	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 16:42
S60	1	("20020015068").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/31 16:42
S61	863	((nozzle eject\$3 drop\$3) near2 (malfunction\$3 abnormal\$3 faulty fail\$3 nonfunction\$3 dummy dead)) near3 (detect\$3 sens\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 17:33

S62	101723	(detect\$3 sens\$3) same ((vibrat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 16:49
S63	95908	(vibrat\$3 with (pattern cycle frequency))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 16:50
S64	30	S61 and S62 and S63	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 16:50
S65	18	S64 not S58	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 16:51
S66	5210	(347/19,68,69,70,71,72).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/31 16:51
S67	64867	("347").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/31 16:51
S68	4	S65 and S66	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 16:51
S69	8	S65 and S67	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 16:51
S70	1	S53 and S69	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 17:23
S71	45710	(resonance adj frequency)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 17:26
S72	1	S61 and S62 and S71	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 17:25
S73	5627	S62 and S71	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 17:26

S74	56	S67 and S73	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 17:25
S75	17	S66 and S74	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 17:25
S76	102776	(resonan\$3 near2 frequency)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 17:26
S77	40	S62 and S76 and S66	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 17:31
S78	2179	(347/19).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/31 17:31
S79	67	(vibrat\$3 frequency oscillat\$3 resona\$4) with ((detect\$3 sens\$3) with ((nozzle eject\$3 drop\$3) near2 (malfunction\$3 abnormal\$3 faulty fail\$3 nonfunction\$3 dummy dead)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 17:46
S80	11	S78 and S79	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 17:37
S81	20	S67 and S79	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 17:46
S82	9	S81 not S80	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/31 17:47
S83	2473	((piezoelectric piezo\$1electric (piezo adj electric)) with vibrat\$4) and "347"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/01 17:26
S84	152	S83 and (residual with vibrat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/01 17:26
S85	1112	((piezoelectric piezo\$1electric (piezo adj electric)) with vibrat\$4 with plate) and "347"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/01 17:27

S86	92	S84 and S85	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/01 17:27
S87	38	S83 and (residual with vibrat\$4 with plate)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/01 17:28
S88	3576584	detect\$4 sens\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/01 17:30
S89	53	S86 and S88	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/01 17:29
S91	24	S87 and S88	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/01 17:29
S92	72580	(detect\$4 sens\$4) with vibrat\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/01 17:39
S93	30	S86 and S92	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/01 17:40
S94	19	S87 and S92	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/01 17:30
S95	4515	((detect\$4 sens\$4) with nozzle eject\$4) with vibrat\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/01 18:10
S96	30	S86 and S95	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/01 18:11
S99	25	S96 not S93	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/01 18:07
S100	568	((detect\$4 sens\$4) with (nozzle eject\$4)) with vibrat\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/01 18:10

S10 1	5	S86 and S100	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/01 18:11
S10 2	9547	((vibrat\$4 oscillat\$4) near2 (residual remain\$4 linger\$4)) ((vibrat\$3 oscillat\$4) with ((counter back) near2 force))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 10:35
S10 3	16	((eject\$4 nozzle) near2 (abnormal\$4 malfunction\$4 malperform\$4 dead faulty defect\$4 non\$1function\$4 nonfunction\$4)) with (detect\$4 sens\$4)) same vibrat\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 10:33
S10 4	3	S102 and S103	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 10:27
S10 5	957	((eject\$4 nozzle) near2 (abnormal\$4 malfunction\$4 malperform\$4 dead faulty defect\$4 non\$1function\$4 nonfunction\$4)) with (detect\$4 sens\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 10:36
S10 6	8	S102 and S105	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 10:34
S10 7	872	((vibrat\$4 oscillat\$4) near2 (residual remain\$4 linger\$4)) ((vibrat\$3 oscillat\$4) with ((counter back) near2 force))) with (detect\$4 sens\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 10:35
S10 8	45085	(eject\$4 nozzle) with (detect\$4 sens\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 10:36
S10 9	48	S107 and S108	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 10:54
S11 1	151319	seiko.as.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 13:50
S11 2	1230	residual adj vibrat\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 13:51

S11 3	1089	S112 not S111	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 13:51
S11 4	64925	("347").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/02 13:51
S11 5	89	S113 and S114	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 13:51
S11 6	35	(residual adj vibrat\$3) same ((detect\$4 sens\$4) and (eject\$4 nozzle))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 13:53
S11 7	15	S116 not S111	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 13:52
S11 8	270	(residual adj vibrat\$3) same ((detect\$4 sens\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 13:54
S11 9	207	S118 not S111	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 13:54
S12 0	192	S119 not S117	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 14:20
S12 1	19798	transducer with vibrat\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 14:00
S12 2	3579554	detect\$4 sens\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 14:01
S12 3	59	(transducer with vibrat\$4) same (residual same (detect\$4 sens\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 14:01
S12 4	58	S123 not S111	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 14:15

S12 5	1230	(residual adj vibrat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 14:18
S13 0	149	S114 and S125	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 14:19
S13 1	89	S130 not S111	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 14:19
S13 2	5	S120 and S114	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 14:31
S13 3	1	("6044694").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/02 14:39
S13 4	0	("residualadj(vibrat\$4oscillat\$4)"). PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/02 14:40
S13 5	344	(residual adj (vibrat\$4 oscillat\$4)) with (detect\$4 sens\$4 measur\$4 measurement)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 14:44
S13 6	269	S135 not S111	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 14:42
S13 8	161	((residual adj (vibrat\$4 oscillat\$4)) with (detect\$4 sens\$4 measur\$4 measurement)) same (piezoelectric piezo\$1electric actuator (piezo adj electric))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 14:46
S13 9	92	S138 not S111	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 15:15
S14 0	21	S139 and S114	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/02 15:15